Attorney's Docket No. MEMC 98-5750 (2358)

DECLARATION AND POWER OF ATTORNEY

REGULAR OR DESIGN APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

METHOD FOR CONTROLLING GROWTH OF A SILICON CRYSTAL TO MINIMIZE GROWTH RATE AND DIAMETER DEVIATIONS

the specification of which:

(check one)

	is attached hereto] was filed on	as Application Serial No.
r	, and was amended	
ι		in PCT International Application a and as amended
	under PCT Article 19 on	, if any.

ACKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations §1.56.

PRIORITY CLAIM

I hereby claim foreign priority benefits under Title 35, United States Code, §119 (a) - (d) or §365(b) of any foreign application for patent or inventor's certificate, or §365(a) of any PCT application which designates at least one country other than the United States of America, listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

	Priority Claime	<u>ed</u>
(Number)	(Country)	(Day/Month/Year filed
(Number)	(Country)	(Day/Month/Year Filed
(Number)	(Country)	(Day/Month/Year Filed
	Priority Not Cla	aimed
(Number)	(Country)	(Day/Month/Year Filed)
CLAIM FO	OR BENEFIT OF PROVISIO	NAL APPLICATION(S)
_		35, United States Code, l application(s) listed
(Application N	umber)	(Filing Date)
(Application N	umber)	(Filing Date)

CLAIM FOR BENEFIT OF EARLIER U.S. APPLICATION(S) UNDER 35 U.S.C. 120

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s), or §365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code §112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, §1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application:

(Serial No.)	(Filing Date)	(Status)	
(Serial No.)	(Filing Date)	(Status)	

POWER OF ATTORNEY

I hereby appoint the following attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: Irving Powers (15,700), Donald G. Leavitt (17,626), John K. Roedel, Jr. (25,914), Michael E. Godar (28,416), Edward J. Hejlek (31,525), William E. Lahey (26,757), Richard G. Heywood (18,224), Frank R. Agovino (27,416), Kurt F. James (33,716), G. Harley Blosser (33,650), Paul I. J. Fleischut (35,513), Vincent M. Keil (36,838), Robert M. Evans, Jr. (36,794), Robert M. Bain (36,736), Joseph A. Schaper (30,493), Kathleen M. Petrillo (35,076), David E. Crawford, Jr. (38,118), Paul A. Maddock (37,877), Scott A. Williams (39,876), Richard L. Bridge (40,529), David M. Gryte (41,809), Christopher M. Goff (41,785), James E. Butler (40,931), Derick E. Allen (43,468), Matthew L. Cutler (43,574), Michael G. Munsell (43,820), Robert J. Lewis (27,210), Patrick S. Eagleman (P-44,665), Karen Y. Hui (P-44,785), and Anthony R. Kinney (P-44,834), all of the law firm of SENNIGER, POWERS, LEAVITT & ROEDEL, One Metropolitan Square, 16th Floor, St. Louis, Missouri 63102.

Send Correspondence To:	Direct Telephone Calls To:
Customer Number: 000321	Robert M. Bain (314) 231-5400
knowledge are true and that belief are believed to be to were made with the knowledge like so made are punishable Section 1001 of Title 18 of	statements made herein of my own all statements made on information and true; and further that these statements ge that willful false statements and the by fine or imprisonment, or both, under the United States Code and that such by jeopardize the validity of the assued thereon.
Full name of sole or first	inventor <u>Paolo Mutti</u>
Inventor's signature	76 Kulh Date 24/1/2000
Residence Merano, Italy	Citizenship <u>Italy</u>
Post Office address <u>MEMC El</u> P.O. Box 8, St. Peters, Mis	ectronic Materials, Inc., 501 Pearl Dr.
Full name of second joint i	nventor <u>Vladmir V. Voronknov</u>
Inventor's signature	Date 24/1/20:
Residence <u>Merano, Italy</u>	Citizenship <u>Russia</u>
Post Office address <u>MEMC El</u> P.O. Box 8, St. Peters, Mis	ectronic Materials, Inc., 501 Pearl Dr.

<u>ASSIGNMENT</u>

WHEREAS, We Paolo Mutti of Merano, Italy, and Vladimir V. Voronkov of Merano, Italy, have invented an improvement in METHOD FOR CONTROLLING GROWTH OF A SILICON CRYSTAL TO MINIMIZE GROWTH RATE AND DIAMETER DEVIATIONS (File MEMC 98-5750 (2358)) and have executed an application for a United States patent based thereon simultaneously herewith;

AND, WHEREAS, MEMC Electronic Materials, Inc. of St. Peters, Missouri, a corporation of the State of Delaware (hereinafter referred to as "ASSIGNEE") is desirous of acquiring certain rights thereunder;

NOW, THEREFORE, for one dollar and other good and valuable consideration, receipt of all of which is hereby acknowledged, we have agreed to and do hereby sell, assign and transfer unto said ASSIGNEE the entire right, title and interest in and throughout the United States of America (including its territories and dependencies) and all countries foreign thereto in and to said invention, said United States application, any other United States applications (including provisional, non-provisional, divisional, continuing, or reissue applications) based in whole or in part on said United States application or in whole or in part on said invention, any foreign applications based in whole or in part on any of the aforesaid United States application or in whole or in part on said invention, and any and all patents (including extensions thereof) of any country which have been or may be granted on any of the aforesaid applications or on said invention or any part thereof;

SPLR

TO BE HELD AND ENJOYED by said ASSIGNEE, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by us had no sale and assignment of said interest been made;

AND We hereby authorize and request the Commissioner of Patents of the United States of America to issue any and all United States patents which may be granted upon said United States applications or any of them, or upon said invention or any part thereof, to said ASSIGNEE;

AND We hereby jointly and severally agree for ourselves and for our respective heirs, executors and administrators, to execute without further consideration any further lawful documents and any further assurances, and any provisional, non-provisional, divisional, continuing, reissue, or other applications for patents of any country, that may be deemed necessary by said ASSIGNEE fully to secure to said ASSIGNEE its interest as aforesaid in and to said invention or any part thereof, and in and to said several patents or any of them;

AND We hereby jointly and severally covenant for ourselves and our respective legal representatives that we have granted no right or license to make, use or sell said invention, to anyone except said ASSIGNEE, that prior to the execution of this deed our right, title and interest in said invention had not been otherwise encumbered, and that we have not executed and will not execute any instrument in conflict herewith.

IN WITNESS WHEREOF, we have hereunto set our hands.

Paolo Mutti

Godo Callorata
Witness

Witness Hopfred

Vladimir V. Voronkov

Posli Collante
Witness

Witness Historian

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Meraus 24/1/2000

Mercry 74/1/2000

Menno 24 1/2000
Date

Merus, 24/1/2000

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UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER MEMC 2358
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

MARCH 12, 2001

PTAS

SENNIGER, POWERS, LEAVITT & ROEDEL ROBERT M. BAIN ONE METROPOLITAN SQUARE 16TH FLOOR ST. LOUIS, MO 63102



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UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

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RECORDATION DATE: 02/01/2000

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BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

MUTTI, PAOLO

DOC DATE: 01/24/2000

ASSIGNOR:

VORONKOV, VLADIMIR V.

DOC DATE: 01/24/2000

ASSIGNEE:

MFMC ELECTRONIC MATERIALS, INC.

501 PEARL DRIVE

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PATENT NUMBER:

ST. PETERS, MISSOURI 63376

SERIAL NUMBER: 09495563

FILING DATE: 02/01/2000

ISSUE DATE:

SEDLEY PYNE, PARALEGAL ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS



	03-09-2001	
MAD 00 R		EET
21 1 To the Honorable Commissioner of Pater	101606219 hts and Trademarks: Please record the attach	ned original document(s) or copy thereof.
1 Name of conveying party(ies) (assignor(s)):		
Poolo MUTTI and Vladinir V. VORONKOV		
Additional name(s) of convening party(ies) attached? U. Name and Address of Party(ies) receiving an interest (as		
Name: MFMC Electronic Materials, Inc. Address: 501 Pearl Drive P.O. Box 8		
City: St. Peters		
State: Missouri Zip. 63376 Country: U.S.A.		
Additional name(s) & address(es) attached? ves 3. Nature of Conveyance:	no	
M Assignment	☐ Change of Name	
☐ Verified Franslation ☐ Security Agre	ement Other	
Execution Unite: January 24, 2000		
4. Application number(s) or patent number(s): 09/	1495563	
If this document is being filed together with a new appli-	cation, the execution date(s) of the application	on is: January 24, 2000
A. Patent Application No(s).	B. Patent No(s).	
Others	on additional sheet(s) attached? Yes	⊠ No
Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applicat Application(s) 1 + 1	ions and patents involved: Patent(s). Patent 1
Robert M. Barn	7. Total Fee (37 CFR 3.41)	
Senniger, Fowers, Leavitt & Roedel	⊠ Enclosed	
One Metropolitan Square 16th Floor	☐ Authorized to be cha	rged to deposit account
St. Louis, Missouri 63102 (314) 231-5400 (telephone)	8. Deposit Account Number (Duplicate copy of this	
	•	ment or credit any overpayment to
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9. Statement and signature		
To the best of my knowledge and belief, the foregoing inf	formation is true and correct and any attache	d copy is a true copy of the original document.
Robert M. Pain	16/4-17/4	February 1, 2000
Name of Person Signing	Signature	Date Date
Total number of	Funges including cover sheet attachments a	nd document